

CLAIMS

- [c1] 1. A method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:
- receiving a floor-control request from a source communication device for initiating a group call;
 - initiating a service origination process for the source communication device; and
 - transmitting a response to the floor-control request from a controller after the service origination process is complete.
- [c2] 2. The method of Claim 1, further including caching the floor-control response before the transmitting.
- [c3] 3. The method of Claim 1, wherein the receiving includes receiving the floor-control request on a reverse common channel.
- [c4] 4. The method of claim 3, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).
- [c5] 5. The method of claim 3, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).
- [c6] 6. The method of claim 3, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.
- [c7] 7. A method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:
- receiving a floor-control request from a source communication device for initiating a group call;
 - initiating a service origination process for the source communication device; and
 - transmitting a response to the floor-control request from a wireless infrastructure after the service origination process is complete.

[c8] 8. The method of Claim 7, further including caching the floor-control response before the transmitting.

[c9] 9. The method of Claim 7, wherein the receiving includes receiving the floor-control request on a reverse common channel.

[c10] 10. The method of claim 9, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).

[c11] 11. The method of claim 9, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c12] 12. The method of claim 9, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.

[c13] 13. A method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

receiving a floor-control request from a source communication device for initiating a group call;

transmitting a response to the floor-control request; and

initiating a service origination process for the source communication device.

[c14] 14. The method of claim 13, wherein the transmitting includes transmitting the response on a forward common channel.

[c15] 15. The method of claim 14, wherein the transmitting includes transmitting the response on a forward paging channel (F-PCH).

[c16] 16. The method of claim 14, wherein the transmitting includes transmitting the response on a forward common control channel (F-CCCH).

[c17] 17. The method of claim 14, wherein the transmitting includes transmitting the response in short data burst (SDB) form.

[c18] 18. A computer-readable medium embodying a method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

receiving a floor-control request from a source communication device for initiating a group call;

initiating a service origination process for the source communication device; and

transmitting a response to the floor-control request from a controller after the service origination process is complete.

[c19] 19. The computer-readable medium of Claim 18, wherein the method further includes caching the floor-control response before the transmitting.

[c20] 20. The computer-readable medium of Claim 18, wherein the receiving includes receiving the floor-control request on a reverse common channel.

[c21] 21. The computer-readable medium of claim 20, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).

[c22] 22. The computer-readable medium of claim 20, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c23] 23. The computer-readable medium of claim 20, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.

[c24] 24. A computer-readable medium embodying a method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

receiving a floor-control request from a source communication device for initiating a group call;

initiating a service origination process for the source communication device; and

transmitting a response to the floor-control request from a wireless infrastructure after the service origination process is complete.

[c25] 25. The computer-readable medium of Claim 24, wherein the method further includes caching the floor-control response before the transmitting.

[c26] 26. The computer-readable medium of Claim 24, wherein the receiving includes receiving the floor-control request on a reverse common channel.

[c27] 27. The computer-readable medium of claim 26, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).

[c28] 28. The computer-readable medium of claim 26, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c29] 29. The computer-readable medium of claim 26, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.

[c30] 30. A computer-readable medium embodying a method for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

receiving a floor-control request from a source communication device for initiating a group call;

transmitting a response to the floor-control request; and

initiating a service origination process for the source communication device.

[c31] 31. The computer-readable medium of claim 30, wherein the transmitting includes transmitting the response on a forward common channel.

[c32] 32. The computer-readable medium of claim 31, wherein the transmitting includes transmitting the response on a forward paging channel (F-PCH).

[c33] 33. The computer-readable medium of claim 31, wherein the transmitting includes transmitting the response on a forward common control channel (F-CCCH).

[c34] 34. The computer-readable medium of claim 31, wherein the transmitting includes transmitting the response in short data burst (SDB) form.

[c35] 35. An apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, comprising:

means for receiving a floor-control request from a source communication device for initiating a group call;

means for initiating a service origination process for the source communication device; and

means for transmitting a response to the floor-control request from a controller after the service origination process is complete.

[c36] 36. The apparatus of Claim 35, further including means for caching the floor-control response before the transmitting.

[c37] 37. The apparatus of Claim 35, wherein the means for receiving includes means for receiving the floor-control request on a reverse common channel.

[c38] 38. The apparatus of claim 37, wherein the means for receiving includes means for receiving the floor-control request on a reverse access channel (R-ACH).

[c39] 39. The apparatus of claim 37, wherein the means for receiving includes means for receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c40] 40. The apparatus of claim 37, wherein the means for receiving includes means for receiving the floor-control request in short data burst (SDB) form.

[c41] 41. An apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

means for receiving a floor-control request from a source communication device for initiating a group call;

means for initiating a service origination process for the source communication device; and

means for transmitting a response to the floor-control request from a wireless infrastructure after the service origination process is complete.

[c42] 42. The apparatus of Claim 41, further including means for caching the floor-control response before the transmitting.

[c43] 43. The apparatus of Claim 41, wherein the means for receiving includes means for receiving the floor-control request on a reverse common channel.

[c44] 44. The apparatus of claim 43, wherein the means for receiving includes means for receiving the floor-control request on a reverse access channel (R-ACH).

[c45] 45. The apparatus of claim 43, wherein the means for receiving includes means for receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c46] 46. The apparatus of claim 43, wherein the means for receiving includes means for receiving the floor-control request in short data burst (SDB) form.

[c47] 47. An apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

means for receiving a floor-control request from a source communication device for initiating a group call;

means for transmitting a response to the floor-control request; and

means for initiating a service origination process for the source communication device.

[c48] 48. The apparatus of claim 47, wherein the means for transmitting includes means for transmitting the response on a forward common channel.

[c49] 49. The apparatus of claim 48, wherein the means for transmitting includes means for transmitting the response on a forward paging channel (F-PCH).

[c50] 50. The apparatus of claim 48, wherein the means for transmitting includes means for transmitting the response on a forward common control channel (F-CCCH).

[c51] 51. The apparatus of claim 48, wherein the means for transmitting includes means for transmitting the response in short data burst (SDB) form.

[c52] 52. An apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:

receiving a floor-control request from a source communication device for initiating a group call;

initiating a service origination process for the source communication device; and

transmitting a response to the floor-control request from a controller after the service origination process is complete.

[c53] 53. The apparatus of Claim 52, the processor further being capable of caching the floor-control response before the transmitting.

[c54] 54. The apparatus of Claim 52, wherein the receiving includes receiving the floor-control request on a reverse common channel.

[c55] 55. The apparatus of claim 54, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).

[c56] 56. The apparatus of claim 54, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c57] 57. The apparatus of claim 54, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.

[c58] 58. An apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:

receiving a floor-control request from a source communication device for initiating a group call;

initiating a service origination process for the source communication device; and

transmitting a response to the floor-control request from a wireless infrastructure after the service origination process is complete.

[c59] 59. The apparatus of Claim 58, the processor further being capable of caching the floor-control response before the transmitting.

[c60] 60. The apparatus of Claim 58, wherein the receiving includes receiving the floor-control request on a reverse common channel.

[c61] 61. The apparatus of claim 60, wherein the receiving includes receiving the floor-control request on a reverse access channel (R-ACH).

[c62] 62. The apparatus of claim 60, wherein the receiving includes receiving the floor-control request on a reverse enhanced access channel (R-EACH).

[c63] 63. The apparatus of claim 60, wherein the receiving includes receiving the floor-control request in short data burst (SDB) form.

[c64] 64. A apparatus for avoiding simultaneous service origination and paging in a mobile operating in a group communication network, the method comprising:

a receiver;

a transmitter; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:

receiving a floor-control request from a source communication device for initiating a group call;

transmitting a response to the floor-control request; and
initiating a service origination process for the source communication device.

[c65] 65. The apparatus of claim 64, wherein the transmitting includes transmitting the response on a forward common channel.

[c66] 66. The apparatus claim 65, wherein the transmitting includes transmitting the response on a forward paging channel (F-PCH).

[c67] 67. The apparatus of claim 65, wherein the transmitting includes transmitting the response on a forward common control channel (F-CCCH).

[c68] 68. The apparatus of claim 65, wherein the transmitting includes transmitting the response in short data burst (SDB) form.

[c69] 69. The apparatus of claim 68, wherein the source communication device includes a push-to-talk (PTT) device.